

ABSTRACT OF THE DISCLOSURE

This invention relates to the production of a microsystem with multiple points for chemical or biological analysis. The production method comprises the steps consisting of:

- 5 - designing a structure provided with microwells (21), wherein each microwell is for receiving a reagent and is provided with fixation means (24) for binding said reagent,
- 10 - placing a first organic compound (30) on the fixation means (24) of the microwells, wherein the first organic compound includes a binding function with a second organic compound (51) and a binding function with the fixation means (24),
- 15 - placing the second organic compound (51) in each microwell (21), wherein the second organic compound includes a binding function with the corresponding binding function of the first organic compound (30) and includes said reagent, in order to obtain in each microwell, chemical or biological analysis probes
- 20 formed by the reagent bound to the fixation means (24) by the coupling of the binding functions of the first (30) and second (51) organic compounds with one another.

25 Fig. 8

ABSTRACT OF THE DISCLOSUREDEVICE FOR CHEMICAL OR BIOLOGICAL ANALYSIS CONTAINING A
PLURALITY OF ANALYSIS SITES ON A CARRIER, AND ITS
METHOD OF PRODUCTION

The subject of the invention is a device for chemical or biological analysis comprising a carrier (21) containing a plurality of analysis sites able to fix a chemical or biological reagent, in which the
5 analysis sites are formed of microdishes (23) hollowed out of the carrier, the side walls and the bottom of the microdishes and the areas of the carrier surface surrounding each microdish, called microdish edges, being made in at least one hydrophilic material (24),
10 and the planar areas of the carrier arranged between the areas surrounding the microdishes being made in a hydrophobic material (27).

Drops (29) of reagent are therefore guided into the microdishes (23) on account of the hydrophobic
15 areas (27). It is therefore possible to increase the density of analysis sites on the carrier.

Figures 4A and 4B.

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ABSTRACT

The invention relates to a chemical or biological analysis multi-point micro-system ^{including} ~~composed~~ of a structure equipped with micro-wells (7), each micro-well being intended to receive a reagent (14a, 15a, 16a) coupled with a conductive polymer, ^{each} micro-well ^{includes} ~~comprising~~ a reception electrode (9a) on which the reagent is fixed by means of the conductive polymer with which it is coupled, ^{also includes} ~~each~~ micro-well ~~comprising~~ a counter-electrode (9b) arranged so as to be able to apply, in a volume of the micro-well, an electric field between its counter-electrode and its reception electrode, ^{further} ~~the structure comprising means enabling~~ the simultaneous connection of all the reception electrodes to a first electric potential and ^{as} ~~means enabling~~ the simultaneous connection of all the counter-electrodes to a second electric potential to be able to set up ^{the} ~~said~~ electric field.